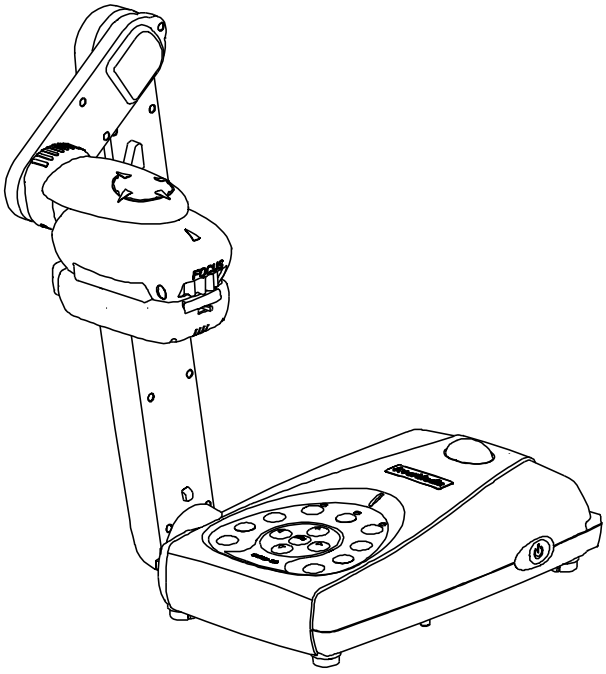
AVerMedia® AVerVision300i

User Manual



AVerMedia®

Document Camera

FCC NOTICE

This device has been tested and found to comply with the limits for a digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial, industrial or business environment. This equipment can generate, use and radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION ON MODIFICATIONS

To comply with the limits for the digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the limits. All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

CE NOTICE

This is a product, complied with the CE limits.

DISCLAIMER

No warranty or representation, either expressed or implied, is made with respect to the contents of this documentation, its quality, performance, merchantability, or fitness for a particular purpose. Information presented in this documentation has been carefully checked for reliability; however, no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice.

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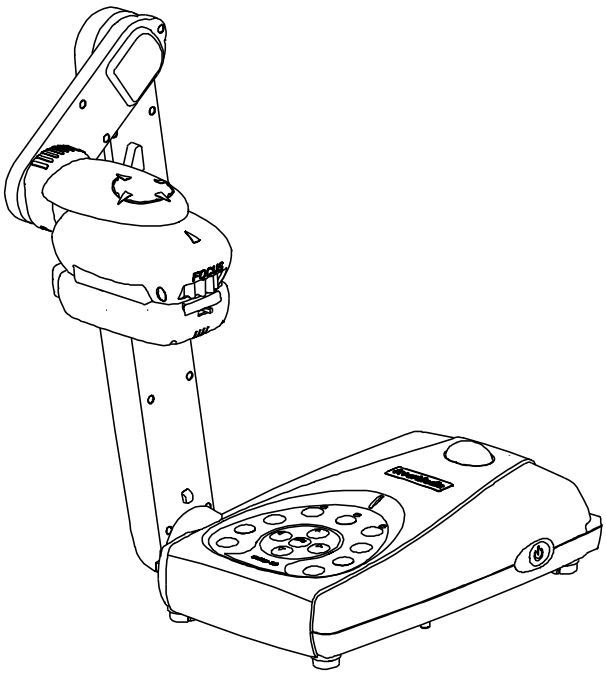
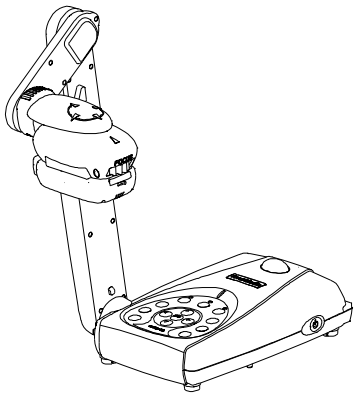
Introduction

Thank you for purchasing the AVerMedia® AVerVision300i. This document camera displays any documents, negatives, transparencies and 3D objects onto a TV, LCD or DLP projector making presentations a snap.

The advanced features of the AVerVision300i make it a versatile and multifunctional product, making presentations easy. You can save still images with built-in flash memory and download to a PC. While connected to a PC via USB cable, you can also capture and save images and video clips to your PC. It also comes equipped with a full-featured remote control. AVerVision 300i is an ideal presentation tool for academic, business, medical and the scientific community.



Package Contents

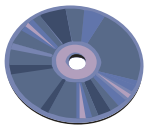


AVerMedia® AVerVision300i

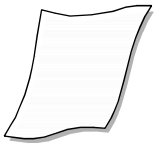
User Manual

Remote Control

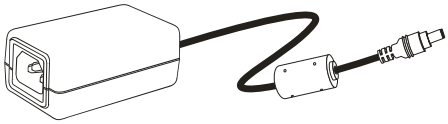
(batteries included)



Driver CD



Anti-glare Sheet



Power Adapter

RCA Cable

S-Video Cable

Power Cord

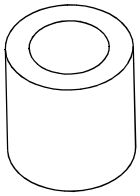
* The power cord will vary depending on the standard power outlet of the country where it is sold.

Computer Extension cable

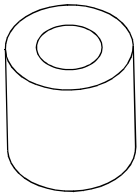
(VGA Cable)

USB Cable

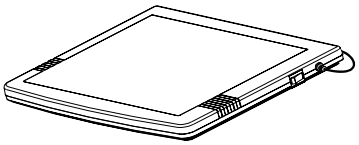
Optional Accessories



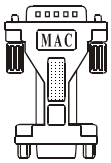
34mm Coupler



28mmCoupler



Light Box



Monitor Adapter

(for MAC)

Computer Adapter

(for MAC)

Technical Specifications

Image

Sensor	1/3” progress scan CCD
Effective Pixels	790K 1024 (H) x 768 (V)
Frame Rate	15 fps
White Balance	Auto/Manual
Exposure	Auto/ Manual/ Flicker / Night View
Image mode	Text/ Graphics
Effect	Color/ B/W / Negative; Reverse; Mirror
Analog RGB output	XGA： 75 Hz, SVGA： 60 Hz, VGA： 60 Hz
H Sync. Signal	60K/ 47 KHz, TTL level, Positive Polarity
V Sync. Signal	75Hz, TTL level, Positive Polarity
Image Signal Level	0.77 Vpp
S-Video, Composite Video Output	NTSC/ PAL
Image Capture	Up to 80 Frames
Built-in Memory	32MB NAND Flash Memory

Optics

Lens	F1.8; Manual Focusing
Shooting Area	320mm x 240mm (max.);
Zooming	Digital: 8x
Power Source	100-220V ~ 1.8A, 50-60 Hz
Consumption	15 Watts (lamp off); 30Watts (Lamp on)

Lighting

Lamp type	LED lamp with Laser Positioning Pointer

Input/Output

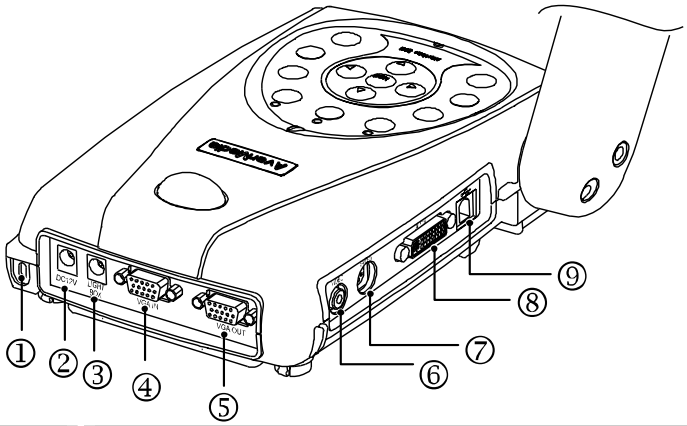
VGA Input	15-Pins D-sub (VGA)
VGA Output	15pin D-sub (VGA)
DVI	DVI-D Type (DVI-VGA adapter not supported)
S-Video	Mini-DIN Jack
Composite Video	RCA Jack
USB	USB1.1
DC 6V Output	Power Jack

Dimension

Operating	220mm x 140mm x 500mm
Folded	380mm x 170mm x 55mm
Weight	2 kg (about 4.4 lb)

Installing and Setting Up the Hardware

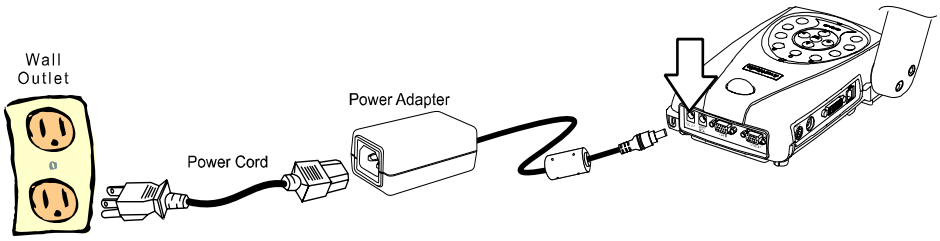
The ports on the back and side panel of the AVerVision300i enable you to connect the unit to a computer, graphics display monitor or LCD/ DLP projector, TV or other device. Illustrated below are the ports that are located at the back and side panel of the AVerVision300i with their corresponding labels.



Port	*Description*
1.Security Slot	Use this port to connect a Kensington compatible security lock.
2. DC 12V (input)	Plug the power adapter into this port. (If turn off the doc cam by disconnecting the power cord, please wait for 5 seconds to reconnect the power connector.)
3. DC 6V (output)	Plug the optional light box into this port.
4. PC IN Port	Use this port to connect the AVerVision300i to the VGA output port of your computer. This enables you to input your computer video signal and pass it through to the VGA out port.
5. VGA OUT Port	Use this port to connect to a VGA/ Mac monitor, LCD/DLP projector for your camera, PC presentation, or playback a picture from built-in memory.
6. VIDEO Port	The VIDEO Port enables you to output your camera or preview a picture from the built-in memory, on your TV.
7. S-VIDEO Port	The S-VIDEO Port enables you to output your camera or preview a picture from the built-in memory, on your TV.
8. DVI OUT Port	Use this port to connect to a LCD/DLP projector or monitor with DVI interface for your camera, PC presentation or play back a picture from built-in memory. (To use DVI connections, please turn on the document camera first before plugging the DVI cable)
9. USB1.1 Port	This port enables you to use AVerVision300i as a PC Camera or to download the captured images to your PC.

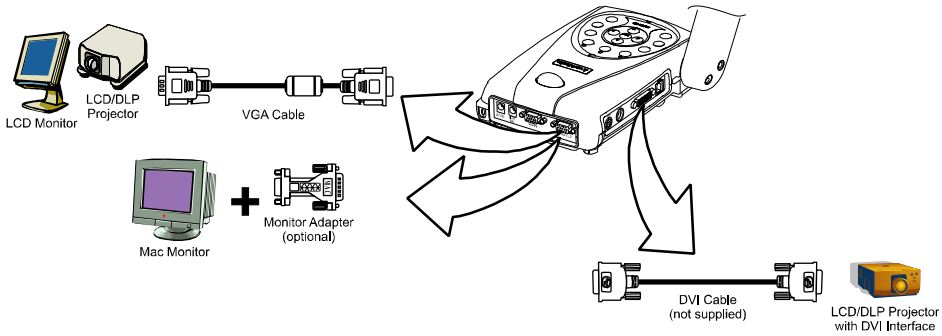
Connecting the Power Adapter

You can connect the power adapter to a standard 100V~240V AC power source.



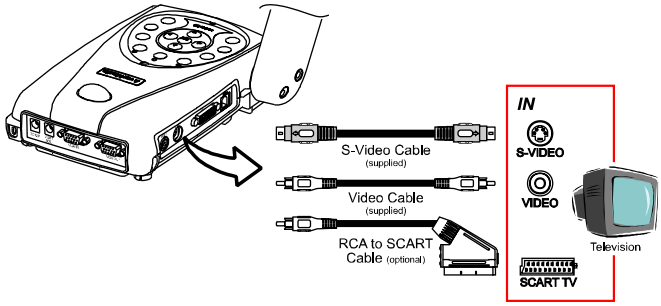
Connecting a VGA, Mac Display Monitor or LCD/DLP Projector

AVerVision300i enables you to display a presentation on a VGA /MAC display monitor, or LCD/DLP projector. It also comes with a DVI output port that produces maximum video quality from your LCD/DLP projector or monitor.



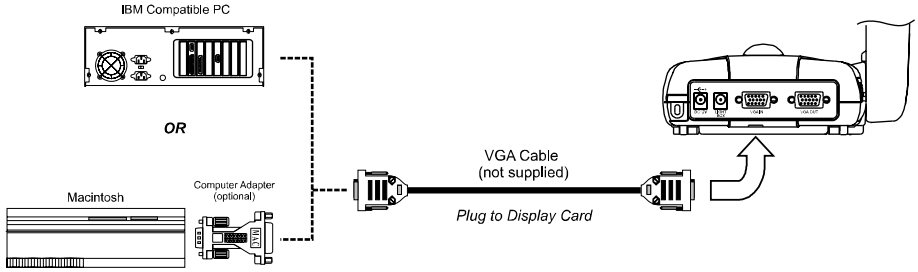
Connecting a TV

To display a presentation on TV, connect AVerVision300i to your TV by using the Video Cable or S-Video cable, switch the output mode to TV system by pressing the **VGA/TV** button on the remote control or control panel. If you are using a SCART RGB monitor, connect it by using the RCA to SCART cable. (The SCART RGB cable is provided as an optional accessory cable with the AVerVision300i.)



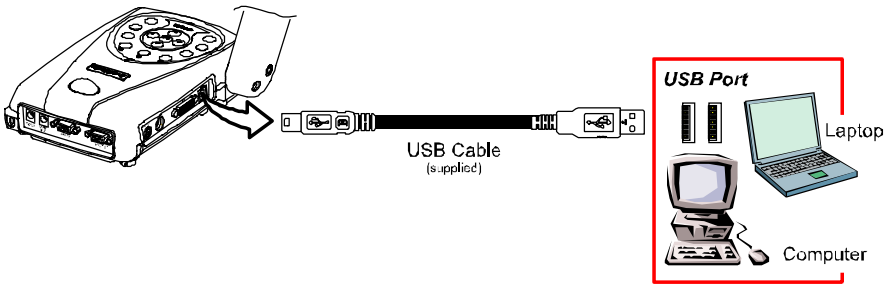
Connecting an IBM Compatible PC or Macintosh Computer

You can connect the AVerVision300i to an IBM compatible PC, Macintosh, or notebook (laptop) computer. After physically connecting the unit to your PC, you can display an image from your computer by pressing the **PC** button on the unit's control panel or remote control.



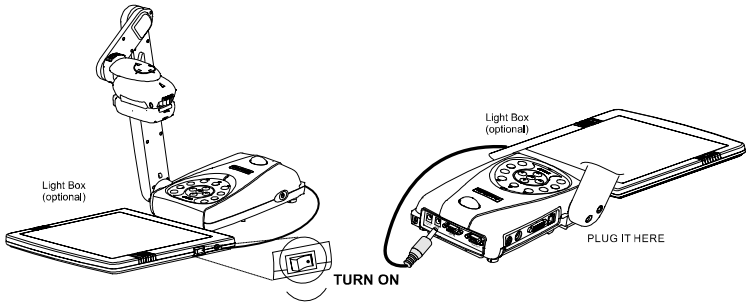
Connecting a Computer via USB connection

Download the saved images from AVerVision300i's built-in memory to your computer or access the software application as a PC cam via the USB cable. Select the function through OSD, then connect it. (Refer to the section*, Using the AVerVision Application*, for more details.)



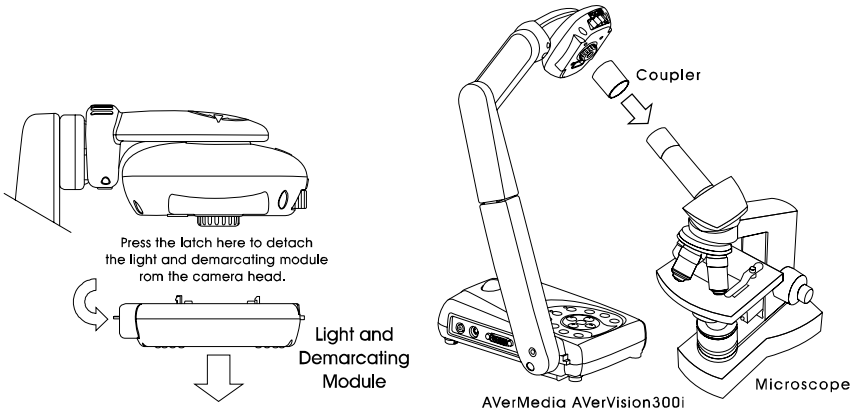
Installing the Optional Light Box

Connecting an optional light box enables you to view x-rays, transparencies and negative slides.



Connecting to a Microscope

Connecting the AVerVision300i to a microscope enables you to examine microscopic objects on a larger screen without straining your eyes.

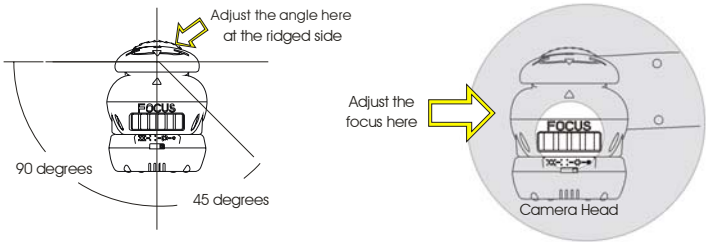


Adjusting the AVerVision300i

This section provides illustrated useful tips on how to adjust the ***AVerVision300i*** to meet your needs.

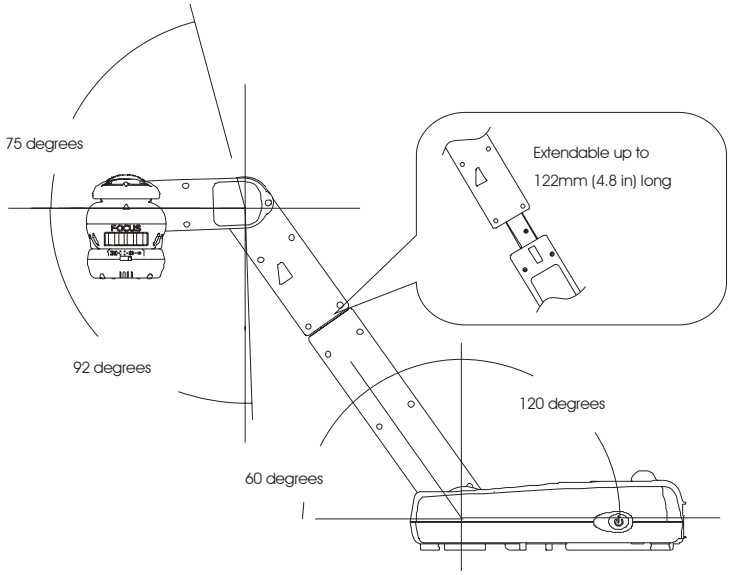
Camera Head

The camera head can be rotated 135 degrees from left to right. You can also manually adjust the focus from here to improve the quality of the pictures.



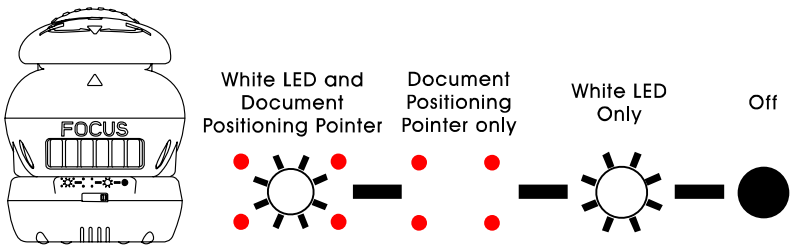
Mechanical Arm

AVerVision300i features a mechanical arm that enables you to project an image to its full height for full A4 paper landscape viewing.



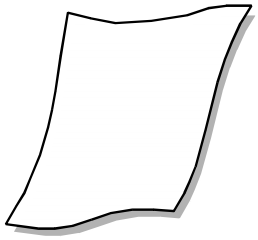
Light and Document Positioning Pointer

A unique feature of the ***AVerVision300i*** is the four (4) laser positioning pointers that define the viewing area, enabling you to correctly position the object at the center under the camera's viewing area. 3 various light and laser position pointer settings are provided as follows.



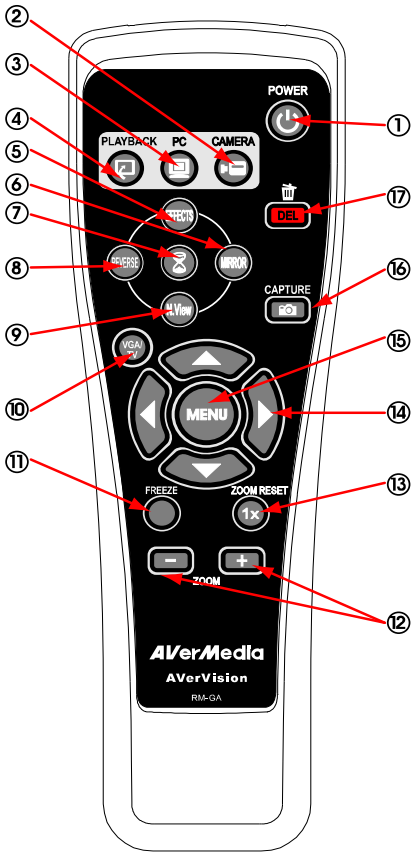
Anti-glare

The anti-glare sheet is a special coated film that helps eliminate any glare you may encounter when you are displaying very shiny objects or glossy surfaces such as magazines, pictures, etc. Simply place the anti-glare sheet on top of the document to reduce the reflected light.



Using the Infrared Remote Control

Use the AVerVision300i Remote Control to enhance your presentation, switch between (3) three presentation modes and access various features. To use the remote control, first insert the batteries (2 size “AAA” batteries are provided) into the battery compartment at the back of the remote. Use the figure and descriptions below to help you use the remote control.

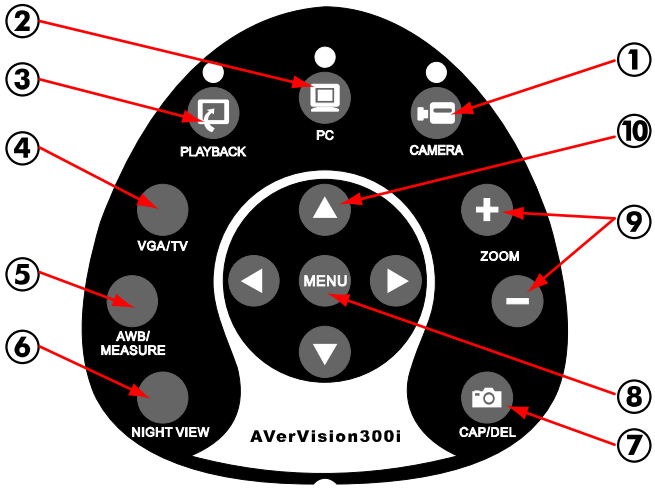


Function	Description
1 POWER	Turns the unit on/off.
2 CAMERA MODE	Switches to Camera mode and displays the image from the AVerVision300i’s built-in digital video camera.

3 *PC MODE*	Switches to PC mode and displays the video signal from the PC IN port.
4 *PLAYBACK MODE*	Switches to PLAYBACK mode and displays 16-thumbnail images captured in AVerVision300i's built-in memory.
5 *EFFECTS*	In Camera or Playback mode, press to convert and view the video in Black and White, Negative or Color.
6 *MIRROR*	In Camera or Playback mode, press to flip the image picked up by the camera.
7 *TIMER*	Press **TIMER** button to display, start and hide the on-screen display timer. You can toggle to display or hide the remaining time when the timer countdown has started.
8 *Reverse*	In Camera or Playback mode, press to rotate the image by 180°.
9 *NIGHT VIEW*	Press to turn on/off Night View. Use Night View when you are presenting in a low-light condition. In Night View, the image of the object appears as though under normal lighting conditions. The AVerVision300i automatically adjusts the exposure to compensate for the adverse condition. The captured image however, appears in slow motion.
10 *VGA/TV*	Switches between VGA (VGA Out/DVI Out) or TV (Composite Video/S-Video Out).
11 *FREEZE*	Press this button to hold the image picked up by the camera and to release the image that has been retained.
12 *ZOOM +/ -*	Press "+" or "–" to digitally zoom in and zoom out the picture up to 800%.
13 *ZOOM RESET*	Press to return to normal view (1x).
14 & 15 *◄▲►▼* */ MENU*	- Press MENU to display the OSD menu and then use the ▲, ►, ▼ and ◄ around the menu button to make a selection and adjustment. - In playback mode, use the ▲, ►, ▼ and ◄ to make a selection and then press **PLAYBACK** to display the image in full size. You may also use **PLAYBACK** button to revert back to display 16-thumbnail pictures. - In zoom-in mode, use the ▲, ►, ▼ and ◄ to pan up , down , left and right.
16 *CAPTURE*	In Camera mode, press to photograph an image. The captured image is automatically stored in the built-in memory card in 1024 x 768 resolution.
17 *DELETE*	Permanently removes the selected picture in preview mode or the displayed full-sized picture.

Touch Button Control Panel

The touch button control panel located on the top side of the AVerVision300i provides quick access to commonly used functions.



Function	Description
1 *CAMERA MODE*	Switches to Camera mode and displays the image from the AVerVision300i's built-in digital video camera.
2 *PC MODE*	Switches to PC mode and displays the video signal coming from the PC IN port.
3 *PLAYBACK MODE*	Switches to PLAYBACK mode and displays 16-thumbnail images captured in AVerVision300i's built-in memory.
4 *VGA/TV*	Switches between VGA (VGA Out/DVI Out) or TV (Composite Video/S-Video) output.
5 *AWB/ MEASURE*	Switches between the continuous Auto White Balance (AWB) or measure and adjust it one time just after pressing the button.
6 *NIGHT VIEW*	Press to turn on/off Night View. Use Night View when you are presenting in a low-light condition. In Night View, the image of the object appears as though under normal lighting conditions. The AVerVision300i automatically adjusts the exposure to compensate for the adverse condition. The captured

	image however, appears in slow motion.
7 *CAPTURE/* *DELETE*	- In Camera mode, press to capture an image. The captured image is automatically stored in the built-in memory card at 1024 x 768 resolution. - In playback mode, press to permanently remove the selected picture in preview mode or the displayed full sized picture.
8 & 10 MENU/ ◄▲►▼	-Press MENU to call the OSD menu and then use the ▲, ►, ▼ and ◄ around the menu button to make a selection and adjustment. -In playback mode, use the ▲, ►, ▼ and ◄ to make a selection and then press **PLAYBACK** to display the image in full-size. You may also use **PLAYBACK** button to revert back to display 16-thumbnail pictures. -In zoom-in mode, use the ▲, ►, ▼ and ◄ to pan up , down , left and right
9 *ZOOM +/ -*	Press "+" or "–" to digitally zoom in and zoom out the picture up to 800%.

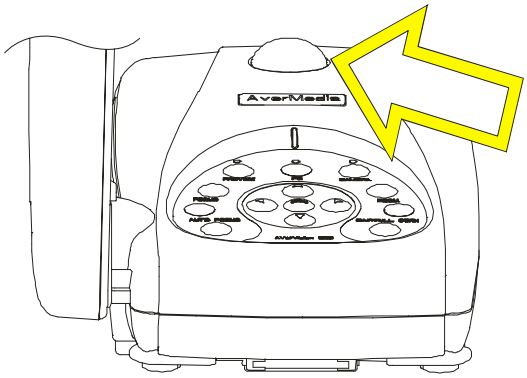
LED Panel

The LED on the front panel of AVerVision300i indicates the status of the unit.

Color	*Description*
Green	The unit is operated with VGA/DVI output.
Orange	The unit is operated with TV output
Red	The unit is in standby mode.

Infrared Sensor

When using the remote control, aim at the Infrared Sensor, which is located at the front panel of the AVerVision300i.



Timer Function

The AVerVision300i enables you to control the pace of your presentation by displaying the remaining time on the countdown screen. This merely serves as a reminder. When the time is up, the timer blanks at the top right corner only and the presentation screen will not be affected in any way.

To Set the Timer:

1. Press **MENU** to view on screen function selections.
2. Press ▲or▼ buttons to select **TIMER**.
3. Press ►or◄ buttons to set a time value. You can set the time value up to 120 minutes.
4. After selecting a time value, press the **MENU** button to go back to the main menu.

To View and Start the Timer Countdown:

1. To display the previously set time value, press the **TIMER** button once. The AVerVision300i automatically converts your settings to “hours:minutes:seconds” format.
2. To start the countdown, press the **TIMER** button again.
3. Once the countdown timer starts, you can toggle the countdown screen to display and hide it by pressing the **TIMER** button.

Using the AVerVision Application

Use the AVerVision PC Camera applications provided to control the AVerVision300i to save any captured images or video clips to your PC, or send them via emails.

Note: When a USB cable is connected between the document camera and the PC, the document camera features are controlled by the application software directly instead on the remote control.

Installing the Software

Minimum System Requirements

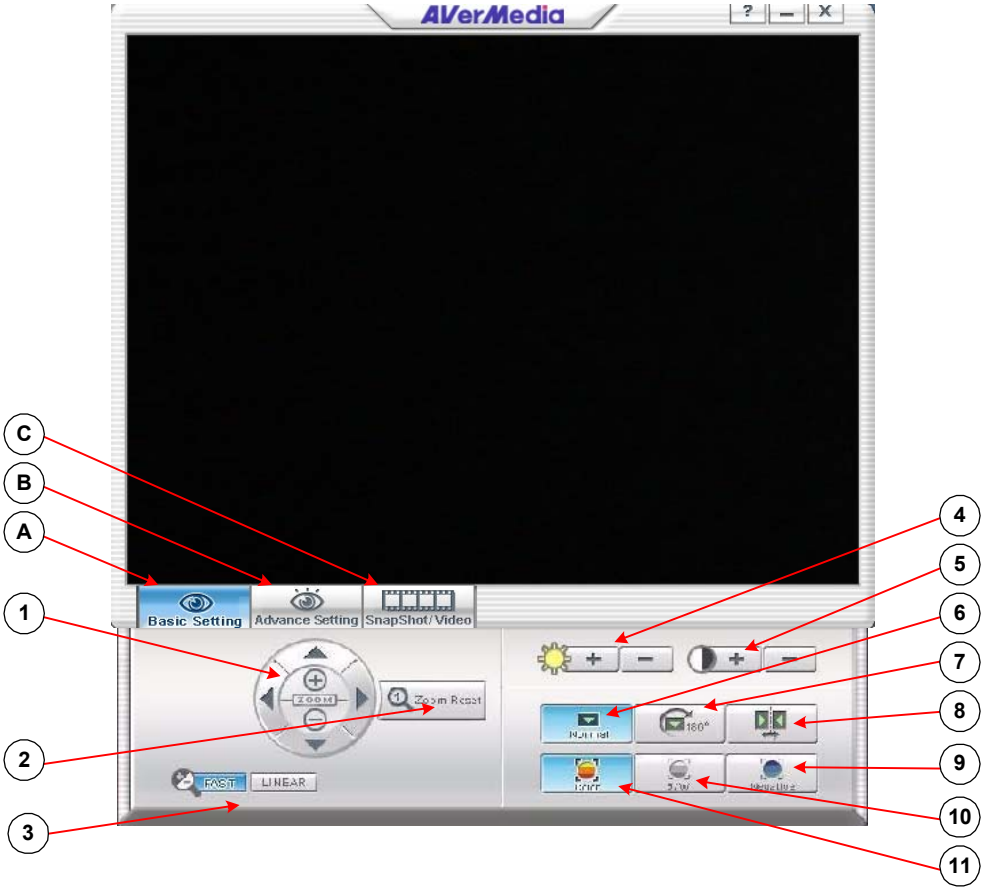
- Pentium®-class processor
- Windows NT Workstation 4.0 with Service Pack 6, Windows2000 Professional with Service Pack 2, Windows XP Professional or Home, or Windows XP Tablet PC
- 32 MB of RAM (64 MB recommended)
- 60 MB of available hard-disk space

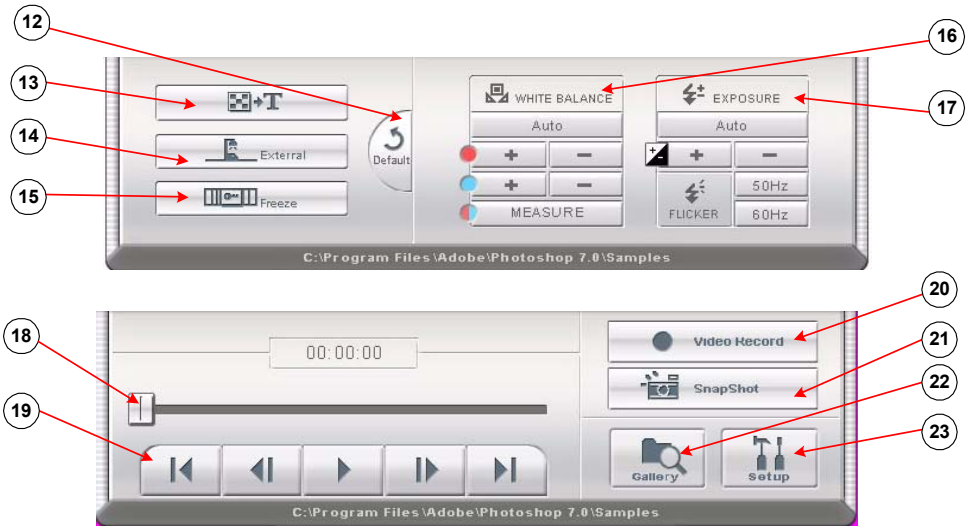
To install PC Webcam Applications:

1. Insert your Software CD into your CD-ROM drive, and click on "PC Camera Applications" and follow the instructions.

2. Click “Finish” to complete installation.
3. After the installation, connect the USB cable between the AVervVsion300i and your PC. Open the applications by clicking “VisionAP” icon on your desktop.

Application User Interface





A. Basic Setting	
Function	***Description***
1	Digital Zoom and Pan Control
2	Return to normal view (1X)
3	Linear/Fast zoom-in selection.
4	Brightness adjustment
5	Contrast adjustment
6	Normal view without image rotate or mirror
7	Rotate the image by 180°.
8	Image mirroring
9	Convert the image to Negative
10	Convert the image to Black and White
11	Back to the original image
B. Advance Setting	
Function	***Description***
12	Restore to original factory setting
13	Select between text and graphic image enhancement mode
14	Display the image from AVerVision's camera or from the PC IN port
15	Freeze image
16	Adjust White Balance

17	Adjust Exposure
C. SnapShot/Video	
Function	***Description***
18	Control the video display by controlling bar
19	Play and control the video display
20	Record the video and save it into PC
21	Capture a single picture and save it into PC
22	Retrieve saved picture or video clips
23	Setup for the picture snapshot or video recording.

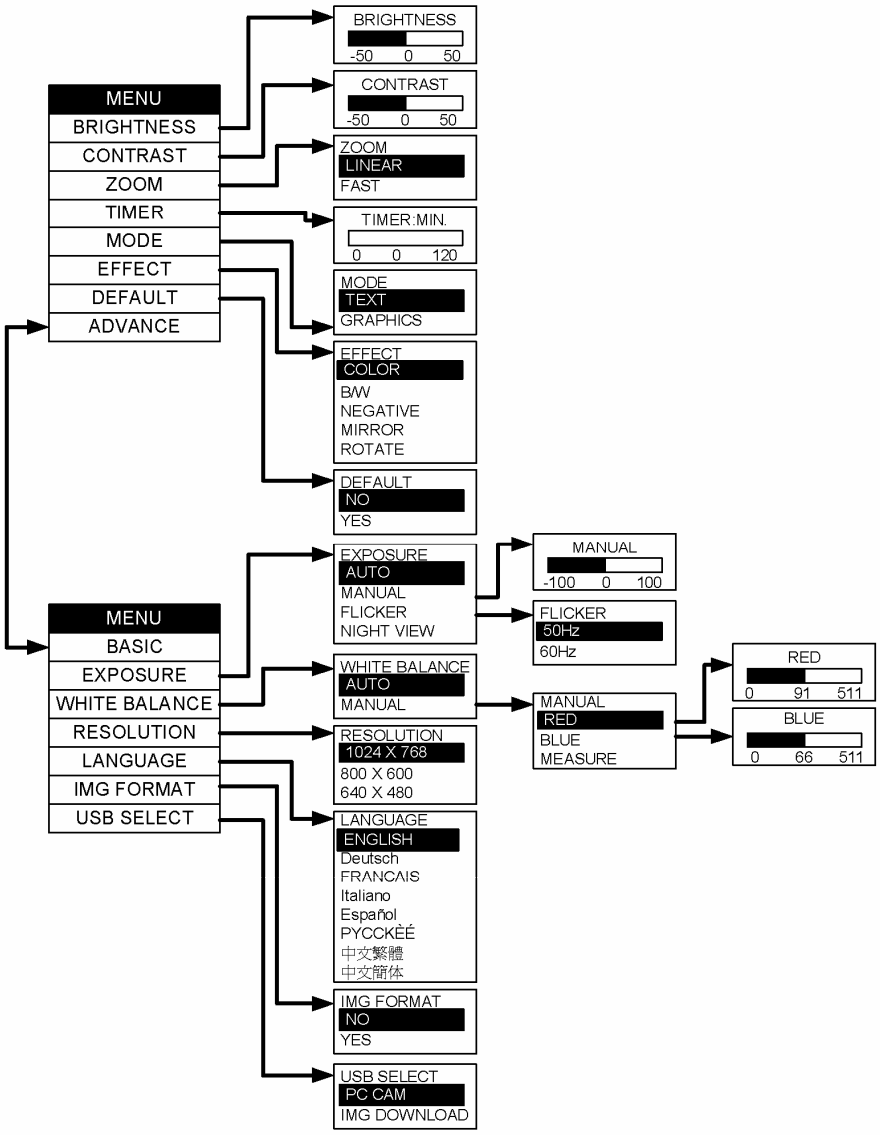
Image Download from AVerVision 300i to PC

To download captured still images from the AVerVision 300i to PC, DO NOT connect the USB cable first. Go to Menu, click on the "Advance" option, then click on the "USB Select" option, and choose "IMG Download". Next, connect the USB cable between the AVerVision 300i and PC. When a dialog box appears, you are ready to download the images to your PC.

When you are finished downloading images to your PC and want to continue using the AVerVision 300i in document camera mode, simply unplug the USB cable.

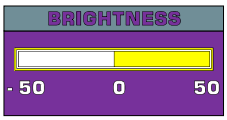
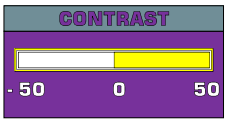
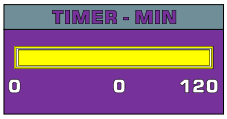
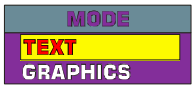
If you prefer to use the AVerVision 300i with the PC Cam applications after image download, go to Menu, again click on the "Advance" option, then click on "USB Select" and choose the "PC Cam" option. Connect the USB cable between the AVerVision 300i and the PC, and then open the VisionAP applications.

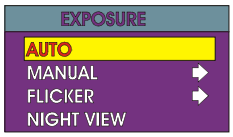
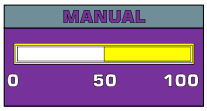
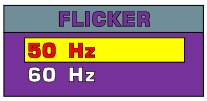
OSD Navigation Tree

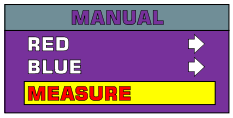


Menu Functions

The MENU functions of the AVerVision300i enable you to fine-tune your screen display, set the timer, select OSD language and more. Press the **MENU** button to call up and exit from the main menu or sub-menu display. Use the ▲or▼ buttons to select the items in the menu list. Use the ► button to enter sub-menu. To adjust the setting, press ◄or► buttons.

Main Menu	*Sub-Menu OSD*	*Description*
BRIGHTNESS		Press ►or◄ buttons to increase or decrease the brightness level and improve the visibility of the image. You can adjust the brightness level up to ±50.
CONTRAST		Press ►or◄ buttons to emphasize or reduce the difference between light and dark conditions. You can adjust the contrast level up to ±50.
ZOOM		Use ▲or▼buttons to select between linear or fast zoom then press ► to make the selection. Using the linear zoom you can increase or decrease the zoom values by 10%. While using the fast zoom, the increments are by 100%. The maximum amount of zoom that you can view is 800%.
TIMER		Press ►or◄ buttons to set a time value. You can set the time value up to 120 minutes. (Refer to the section*, Timer Function*, for more details.)
MODE		Use ▲or▼ buttons to select between text and graphics image enhancement mode. In text mode, the AVerVision300i corrects the intensity of the adjacent pixel making it more uniform, producing sharper and clearer images. While in graphics mode, the AVerVision330 adjusts the gradient of the adjacent pixel that appears to have a smooth image.

Main Menu	*Sub-Menu OSD*	*Description*
EFFECT		Use ▲or▼ buttons to display the image captured by the camera into negative, positive (true color), monochrome (black and white), mirrored image, or as a rotated image by 180º.
DEFAULT		Use ▲or▼ buttons to select YES to restore to original factory default setting or NO to exit. Press ► to make the selection.
EXPOSURE	 	Use ▲or▼ buttons to select between Auto and Manual. AVerVision300i enables you to automatically or manually adjust the camera to determine how much light is required. If you choose to manually adjust the exposure, press ►or◄ buttons to adjust the exposure level. If you are presenting in a low-light condition, Night View enables the image of the object to appear as though under normal lighting conditions. The AVerVision300i automatically adjusts the exposure to compensate for the adverse condition, but the captured image will appear to be in slow motion.
		Use ▲or▼ buttons to select between 50Hz or 60Hz. Some display devices cannot handle high refresh rates. The image will flicker a couple of times as the output is switched to another refresh rate.
WHITE BALANCE		Use ▲or▼ buttons to select between Auto and Manual. AVerVision300i enables you to automatically or manually adjust the camera to suit the lighting condition or color temperature. If you select to manually adjust the white balance, you can adjust the Red, Blue or use the system to measure the color temperature.

Main Menu	*Sub-Menu OSD*	*Description*
WHITE BALANCE		To obtain a more accurate color balance, place a sheet of white paper under the camera. Select **MEASURE** then press ► button to calibrate the color temperature. Wait until a "**MEASURE OK**" appears at the lower left corner of the presentation screen.
RESOLUTION		Use ▲or▼ buttons to choose from 1024x768, 800x600 or 640x480 display resolution then press ► to make the selection.
LANGUAGE		Use ▲or▼ buttons to select from nine different languages then press ► to make the selection.
IMG FORMAT		Use ▲or▼ buttons to select No to exit or YES to format and delete all the images saved in the built-in memory then press ►.
USB SELECT		Use ▲or▼ buttons to select USB functions between PC Cam and Image Download. In PC Cam mode, you can connect a USB cable to your computer and access the software application from the Driver CD. In Image Download mode, you can download the saved images from AVerVision300i's built-in memory to your computer.

Troubleshooting

This section provides many useful tips on how to solve common problems while using the AVerVision300i.

There is no picture on the presentation screen.

1. Check all the connectors again as shown in this manual.
2. Check the on/off switch of the display output device.
3. Verify the setting of the display output device.
4. If you are presenting from a notebook or computer through the display output device, please check and switch the document camera source to PC Mode.

I have set up the AVerVision300i and checked all the connections as specified in the manual, but I cannot get a picture on the preferred presentation screen.

1. Once the power cords are connected, the LED light turns RED as standby mode. Simply switch the AVerVision300i “ON" by pressing the on/off switch until the LED light is blanking and turns GREEN.
2. The default camera display resolution setting is on 1024x768. If your output device does not support this resolution; no image can be projected. Simply press the MENU and RIGHT or LEFT button to the increase or decrease the resolution setting.
3. If your display output device is TV or any analog device, please click on the VGA/TV button to switch output mode.

The picture on the presentation screen is distorted or the image is blurry.

1. Reset all changed settings, if any, to the original manufacturer default setting (Refer to the Menu Functions for more details and steps).

2. Use the Brightness and Contrast menu functions to reduce the distortion if applicable.
3. If you discover that the image is blurry or out of focus, adjust the focus ring on the camera head.

There is no computer signal on presentation screen.

1. Check all the cable connections among the display device, AVerVision 300i and your PC.
2. Connect your PC to the AVerVision300i first before you power on your computer.

The presentation screen does not show the exact desktop image on my PC or Notebook after I toggle from Doc Cam mode to PC mode.

1. Return to your PC or Notebook, place the mouse on the desktop and right click, choose “Properties”, choose “Setting” tab, click on “2” monitor and check the box “Extend my Windows desktop onto this monitor”. Then go back one more time to your PC or Notebook and place the mouse on the desktop and right click again. This time choose “Graphics Options”, then “Output To”, then “Intel® Dual Display Clone”, and then choose “Monitor + Notebook”. After you follow these steps, you should be able to see the same desktop image on your PC or Notebook as well as on the presentation screen.

How do I download images from AVerVision 300i to PC ? Is it normal that AVerVision300i will reset to camera mode after I download images and disconnect the USB cable?

1. Choose "IMG Download" from the Menu, and then connect the USB cable to download the captured and stored images from the AVerVision300i to your PC. When finished, unplug the USB cable. The AVerVision300i will automatically reset at camera mode.

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